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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/749,234	12/30/2003	Jae-Joon Yi	11038-179-999 9674		
24341 75	590 12/23/2004		EXAMINER		
MORGAN, LEWIS & BOCKIUS, LLP.			LORENCE, RICHARD M		
2 PALO ALTO 3000 EL CAMI		•	ART UNIT PAPER NUMBER		
PALO ALTO, CA 94306			3681		
			DATE MAILED: 12/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/749,234	YI, JAE-JOON	5/			
	Office Action Summary	Examiner	Art Unit				
		Richard M. Lorence	3681				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence add	ress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).	nmunication.			
Status							
1)⊠	Responsive to communication(s) filed on 30 D	ecember 2003.					
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicat	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>30 December 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	re: a) ☐ accepted or b) ☒ object drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFF	₹ 1.121(d).			
11)	The oath or declaration is objected to by the Ex	taminer. Note the attached Office	Action or form PTC	J-152.			
12)⊠ a)i	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National S	Stage			
2) Notice 3) Information	et(s) see of References Cited (PTO-892) see of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) ser No(s)/Mail Date 12/30/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	152)			

Application/Control Number: 10/749,234

Art Unit: 3681

DETAILED ACTION

This is the first Office action on the merits of Application No. 10/749,234 filed on December 30, 2003. Claims 1 and 2 are currently pending.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the reference numeral '9" which is not mentioned in the description. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Buccerio '195. Note Figure 1 which shows the multiple disc clutch assembly 10 including the clutch plates 20 mounted in retainer 18, the clutch discs 22 mounted on the hub 38, the piston 24 slidingly movable in the retainer, the spring retainer 26 disposed between the piston and hub, the spring 28, and the lip seal 44 on the piston and the not-numbered lip seal on the radially outer periphery of the spring retainer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Buccerio '195 in view of Martin '518. While Buccerio does not explicitly state that either the piston or spring retainer are made from pressed steel, the thickness of the parts would seem to indicate that such is the case. Nonetheless the fabrication of pistons and

spring retainers for multi-disc clutch transmissions from sheet metal (pressed steel) has long been known to be desirable in order to reduce size and cost, as evidenced by Martin at column 1, lines 8-14, which teaches forming a piston (column 2, lines 51-54) and spring retainer (column 3, lines 16-19) from sheet metal. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the piston and spring retainer of Buccerio from pressed steel (sheet metal) in order to reduce the weight and cost of these parts.

Prior Art Citation

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited by applicant in the IDS filed on December 30, 2004 has been considered. The examiner further cites Usoro '901, Gorman et al. '306 and Miura '729 (JP) which show hydraulically actuated multi-disc clutches for transmissions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard M. Lorence whose telephone number is (703) 308-3062. The examiner can normally be reached on Mondays through Fridays from 9:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (703) 308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard M. Lorence Primary Examiner Art Unit 3681

Lorence/rml